FIG. 1

FIG. 2

Figure content labels:

Y_O

D

F

Projected and reflected beam

S

$y_B = -F\tan\alpha$

α

Y_L

O_P and O_L

Y_B

Z_L

$-vCF$

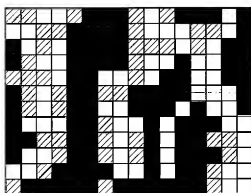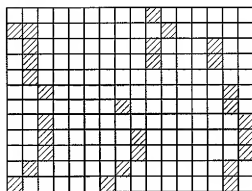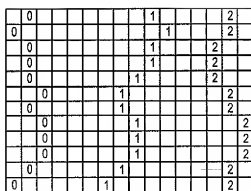Target object (cylinder)

Camera

FIG. 3

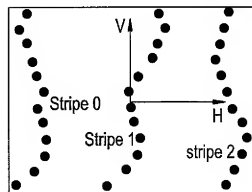# FIG. 4

Bitmap array A_B

Peak array A_P
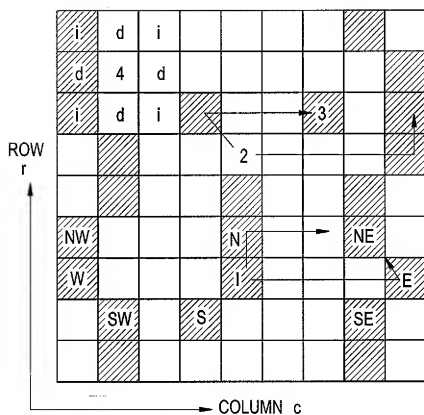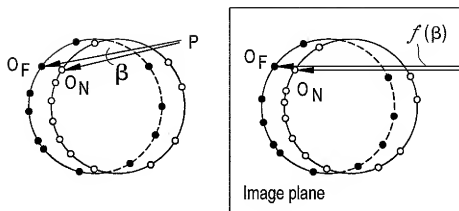

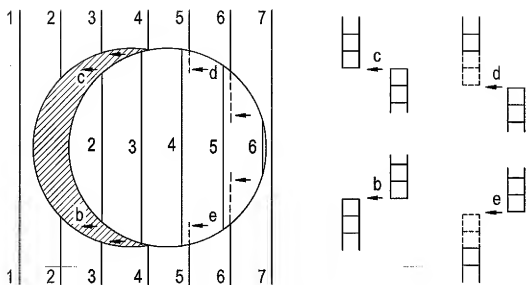Index array A_f
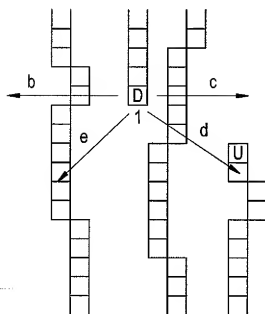

Indexed points I

FIG. 5

FIG. 6

FIG. 7

FIG. 8

FIG. 9

FIG. 10

FIG. 11A   FIG. 11B

FIG. 12

template   test 1   test 2   test 3   test 4
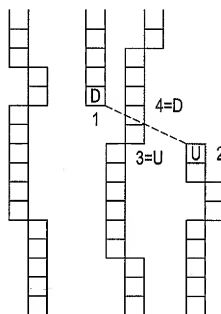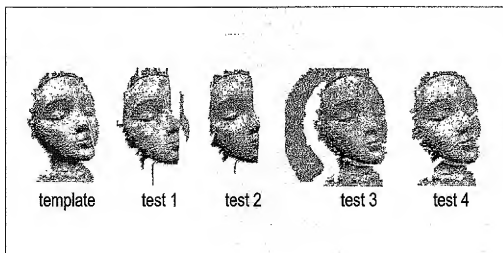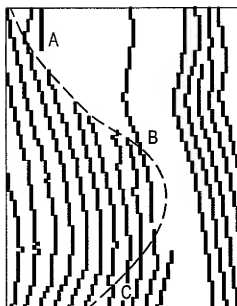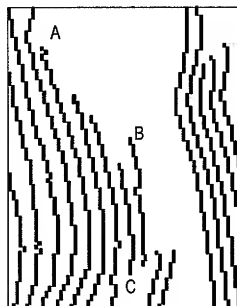
FIG. 13A

FIG. 13B

FIG. 14

Test no:	Occlusion detection	Algorithm types	Corresponding peaks C	Miscorresponding peaks M	Noncorresponding peaks X	Total Peaks C + M + X
1	NO	Stripe tracer	18681	2304	362	21347
2	YES	Stripe tracer	17332	0	0	17332
3	NO	Flood filler	26120	5188	14333	45641
4	YES	Flood filler	25668	2175	31	27874